# Introduction to Triggers
# [Some Coding Pipeline & RoadMap Validation Step]
# (Version -1)

By

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hello@creditcardgenius.ca / spoof@americanexpress.com/fphx018@pharmaprix.ca
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**Abstract**

We are curious how much we can automate some daily tasks such that we can activate multiple executions while just using a **Search Engine**. As for example, we are looking to automate a program that publishes automatically a summary of our **daily search engine history on Zenodo**, using an **API**; and also we are investigating how the **emails contacts-list** found/available on some webpages can be added automatically to some projects on **Asana Platform** as Invites/Guests/Associates. Those ones are only few examples. There are more to discuss: **Triggered emails** for RoadMap validation with Affiliate/Partners Institutions Approvals.

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## 0.1 Introduction

### 0.1.1 Some Definitions

A PL/SQL trigger is a **named database object that encapsulates and defines a set of actions** that are to be performed in response to any relevant click : insert, update, or delete actions, for e.g. [here-0][here][here][here][here][here] [here][here][here][here] [here][here][here][here] [here] [here][here] [here] [here][here]

### 0.1.2 Core Elements of a Trigger [here]

Every database trigger relies on three foundational components, often called the E-C-A model:

1. **Event**: The specific action that wakes up the trigger (e.g., adding a new row).
2. **Condition**: An optional rule determining whether the trigger's code should actually run.
3. **Action**: The actual block of SQL or procedural code that executes when the trigger fires.

The Use of Triggers is also referred as Time-Triggered Architecture in Computing Methods : [here][here][here]. Time-triggered systems are commonly associated with international safety standards [here], [here], [here], [Pon08].

## 0.2 Build a Python Code for a Summary of Web Search Engine

We need a tool or a Program that can summarise our daily Search Engine and Publish them automatically as an Article on Publishing Server, such as [**Zenodo**], for example.

Read here [here][here][here][here]

The following is an example of such Program [in Python] (*You can extract and summarize your daily search queries from Google Chrome's local SQLite database using a short Python script. This script safely copies your active history file, queries search engine URLs from the past 24 hours, and prints a clean text summary*).

```
import os
import shutil
import sqlite3
from datetime import datetime, timedelta, timezone
```

```
# 1. Locate Chrome History file based on OS
if os.name == 'nt':  # Windows
    history_path = os.path.expanduser('~') + r'\AppData\Local\Google\Chrome\User Data\Default\History'
elif os.name == 'posix':  # macOS / Linux
    if sys.platform == 'darwin':
        history_path = os.path.expanduser('~/Library/Application Support/Google/Chrome/Default/History')
    else:
        history_path = os.path.expanduser('~/.config/google-chrome/default/History')

# Fallback temporary safe copy to bypass locked file errors
temp_history = 'history_temp_copy'
shutil.copy2(history_path, temp_history)

# 2. Connect to SQLite and compute timestamp threshold (24 hours ago)
conn = sqlite3.connect(temp_history)
cursor = conn.cursor()

# Chrome uses microseconds since Jan 1, 1601 (Windows Epoch)
epoch_start = datetime(1601, 1, 1, tzinfo=timezone.utc)
one_day_ago = datetime.now(timezone.utc) - timedelta(days=1)
chrome_time_threshold = int((one_day_ago - epoch_start) / timedelta(microseconds=1))

# 3. Query search engine patterns (Google, Bing, DuckDuckGo)
query = """
    SELECT url, title, last_visit_time
    FROM urls
    WHERE (url LIKE '%://google.com%'
        OR url LIKE '%://bing.com%'
        OR url LIKE '%://duckduckgo.com%')
    AND last_visit_time > ?
    ORDER BY last_visit_time DESC
"""

cursor.execute(query, (chrome_time_threshold,))
results = cursor.fetchall()

# 4. Process and Display the Summary
print(f"--- Daily Search Summary ({len(results)} searches found) ---\n")
for row in results:
    url, title, _ = row
    # Clean up title suffix commonly added by search engines
    clean_title = title.replace(' - Google Search', '').replace(' - Bing', '')
    print(f"• {clean_title}")

conn.close()
os.remove(temp_history)
```

---

## 0.3 Triggers for RoadMap Validation and Approval

Institutional approval for some workflows is required; mostly when working on some specific systems. We are planning to edit some Policy Triggers to request the pause of an action that may require ***human, managerial, or Institutional review*** [here].

### 0.3.1 Example : Triggered emails

Triggered emails are automated emails sent to some agents based on actions taken (or not taken) or events within your defined lifecycle [here].

Examples of Situations that requires **Triggered emails**:

1. Free trial Subscriptions : you need **Triggered emails** because you need to raise engagement and funds immediately before the end of your trial subscription.
2. Abandon Transactions : you need to explain those transactions to your Affiliate Institutions to explain their importance of completion (with **due** payment date).

Relevancy for your Daily Search Engine and Web-browsing: You need to write an effective email to some institutions when a search engine action lacks a clear roadmap; contact some Instutitutions to state your core question immediately, explain the business impact of the missing timeline, and request a specific status update or meeting with the engineering team within five business days [here][here].

### 0.3.2 Scenarios Descriptions

Multiple Scenarios are Described in figure 1, 2, 3, 4.

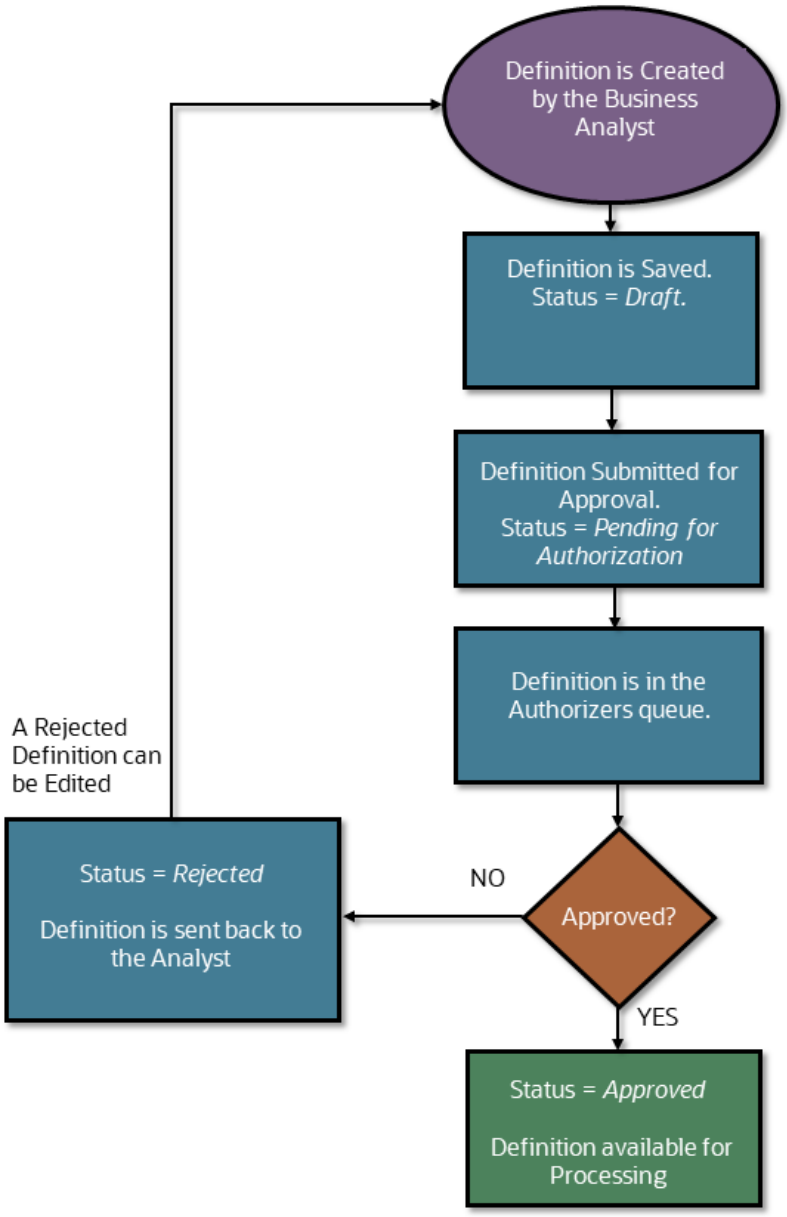
Definition is Created by the Business Analyst
Definition is Saved. Status = *Draft*.
Definition Submitted for Approval. Status = *Pending for Authorization*
Definition is in the Authorizers queue.
Approved?
NO
YES
Status = *Rejected*
Definition is sent back to the Analyst
A Rejected Definition can be Edited
Status = *Approved*
Definition available for Processing

Figure 1: This is an Example of RoadMap Validation [here-1]

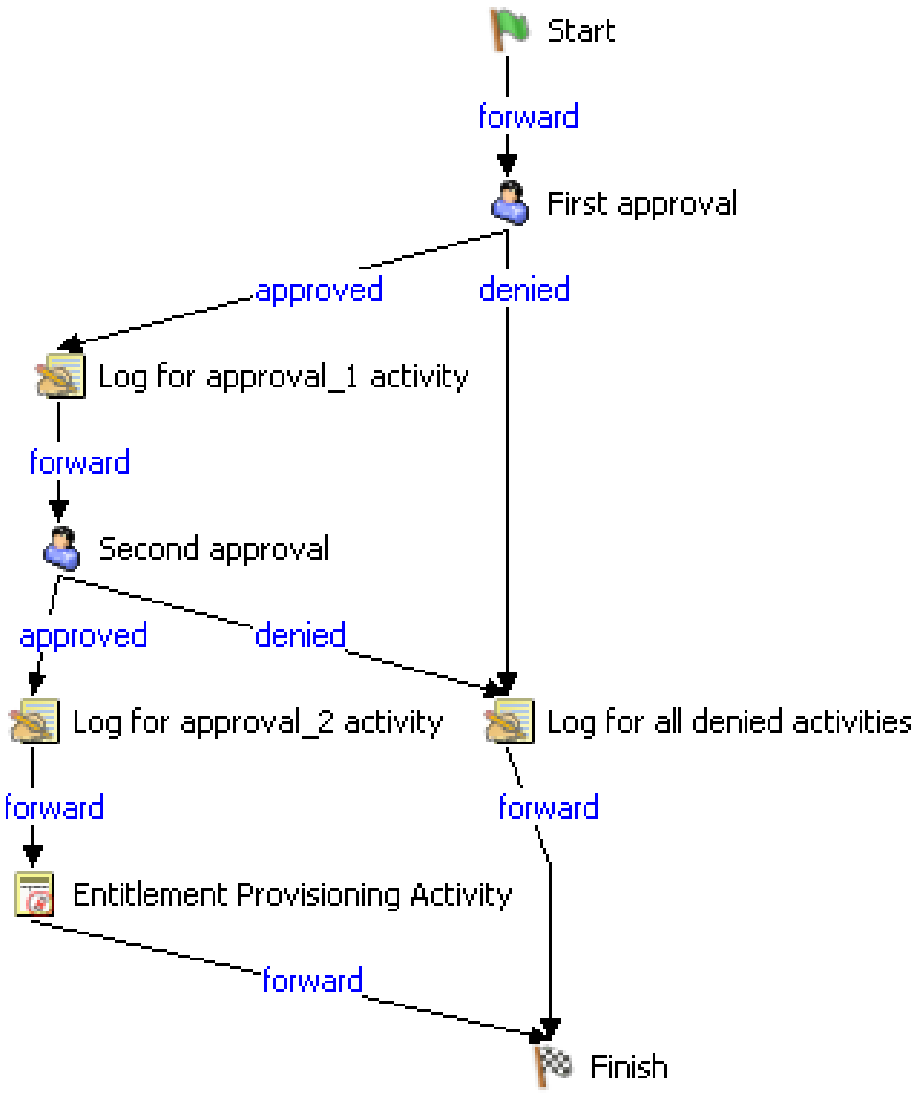


Figure 2: This is an Example of RoadMap Validation [here-2]

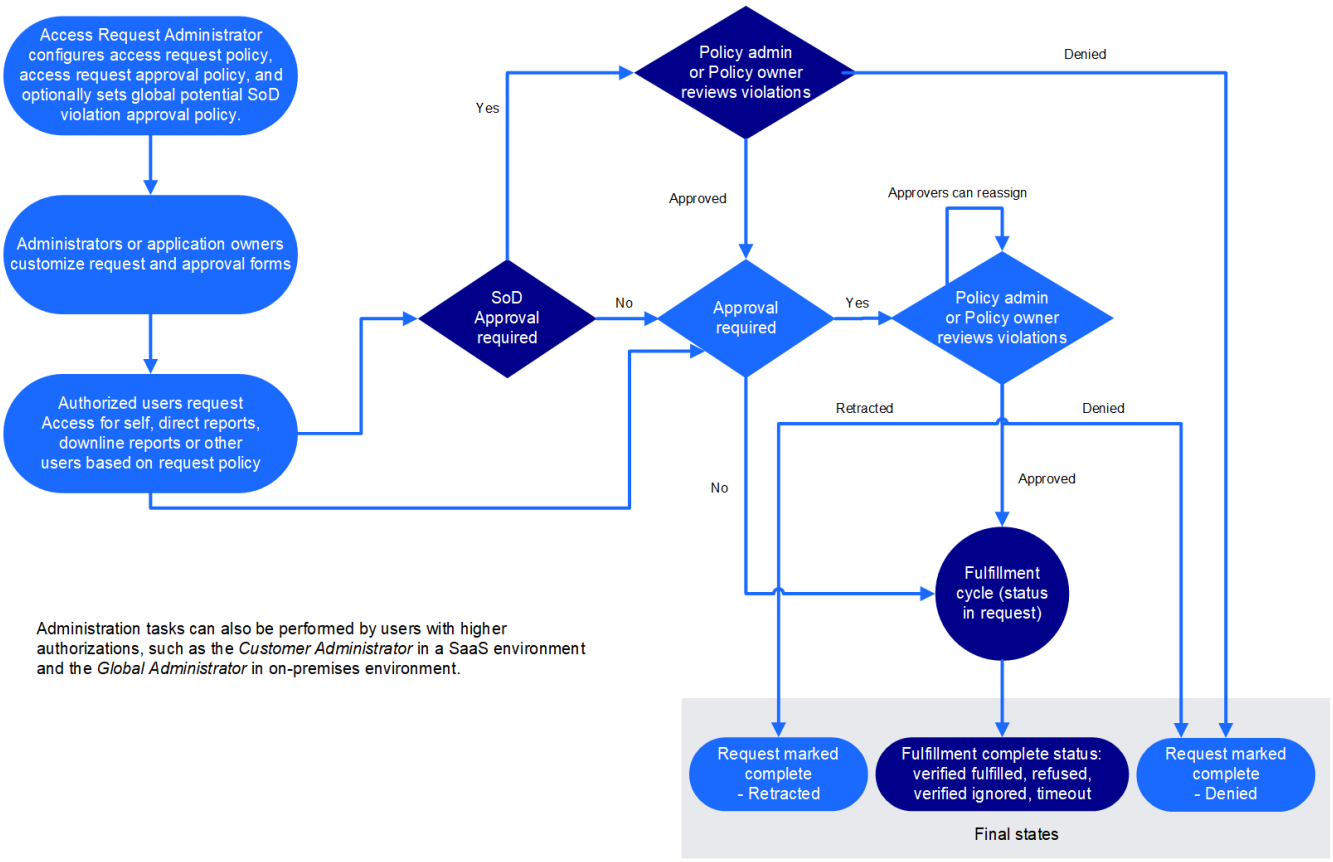
Access Request Administrator configures access request policy, access request approval policy, and optionally sets global potential SoD violation approval policy.
Administrators or application owners customize request and approval forms
Authorized users request Access for self, direct reports, downline reports or other users based on request policy
SoD Approval required
No
Yes
Policy admin or Policy owner reviews violations
Denied
Approved
Approvers can reassign
Approval required
Yes
Policy admin or Policy owner reviews violations
Retracted
Denied
No
Approved
Fulfillment cycle (status in request)
Request marked complete - Retracted
Fulfillment complete status: verified fulfilled, refused, verified ignored, timeout
Request marked complete - Denied
Final states
Administration tasks can also be performed by users with higher authorizations, such as the Customer Administrator in a SaaS environment and the Global Administrator in on-premises environment.

Figure 3: This is an Example of RoadMap Validation [here-3]

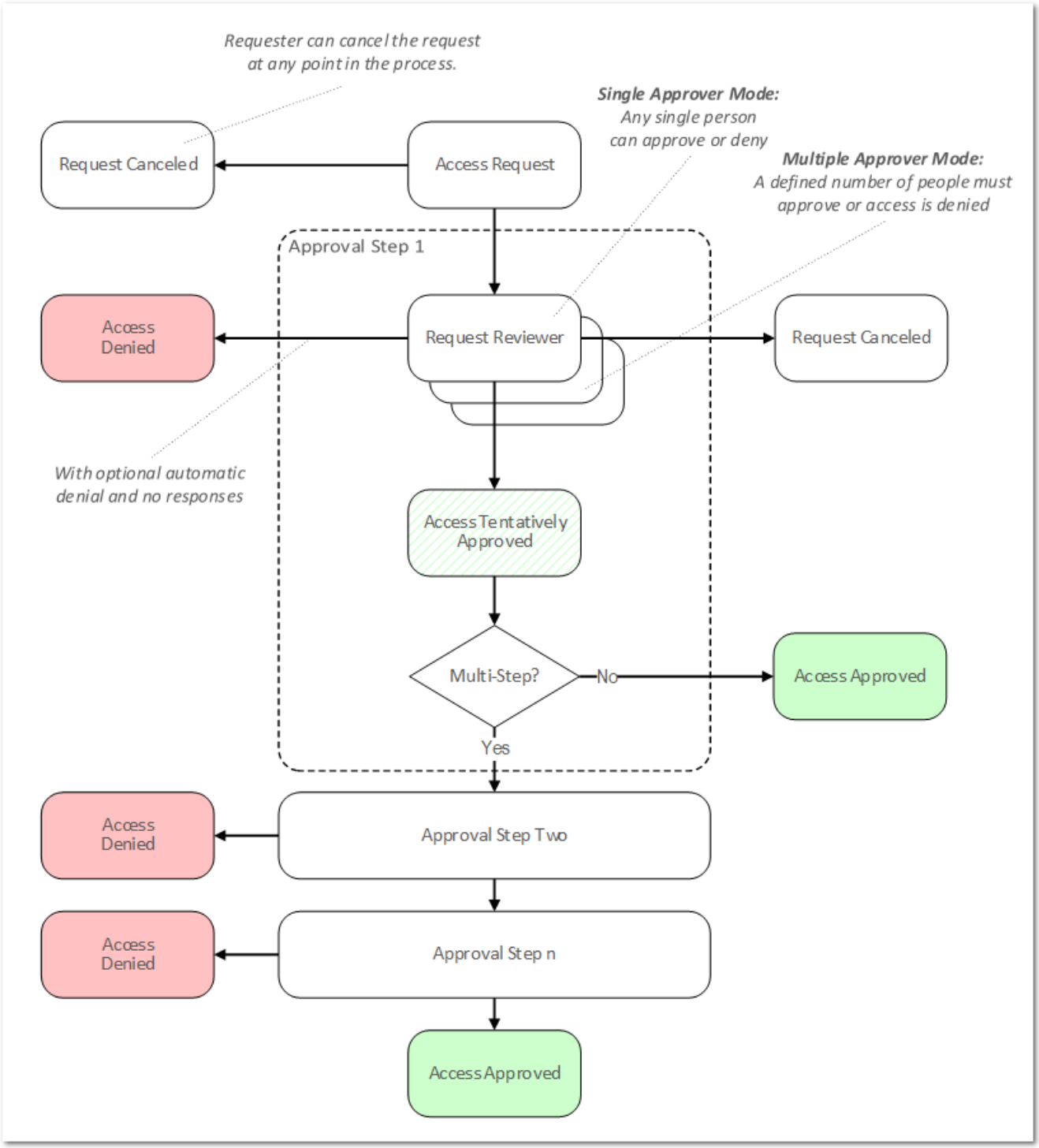


Figure 4: This is an Example of RoadMap Validation [here-4]

## 0.4 Family RoadMap and Affiliate Institutions

The American Psychology Association [apaaccred@apa.org], convention@apa.org, the Journal of Family Studies, here, The American Board of Pediatrics [here], are key Institutions to remember Family Roadmap :

CAMH has developed and implemented a Patient and Family Engagement Roadmap, which is based on the principles of Patient- and Family-Centered Care. The Roadmap details specific actions that guide us toward a future where patients and families are included in all aspects of our organizational, clinical, research and education initiatives—helping us to achieve the highest quality care. [pfe@camh.ca, family.engagement@camh.ca, PFPProgram@camh.ca]

**Some References** : Info@cymha.ca, kj-wm.com, mcatprep@aamc.org, info@apafss.org, Preparation for an APA Accreditation Program Self-Study[apasitevisit@apa.org], [A Meeting is coming for the Preparation of an APA Accreditation Master's Program Self-Study];

There is a Prenatal Policy - sydne.lewis@Vanderbilt.Edu [The RoadMap Project],

[CZ25], [GG24], [Sie22], [CMR25], [Con20], [Phi25], [KDB+21],

## 0.5 Monitoring Your Web Search Engine with SEO Extension : Extract emails and links

1. Read [here][here];
2. It is Possible to extract links and emails from Your visited websites to push them directly in an Asana Project: [here][here]

## 0.6 Extended Contributors

1. KDE's Press Room at press@kde.org,
2. support@osmand.net
3. certification@qt.io,
4. partners@jolla.com, careers@jolla.com, etc.
5. Grocery Store, IGA Marché Verreault et Normandeau, here.
6. Pizzaway Restaurantes [pizzawaymontreal@hotmail.com, pizzaway@hotmail.ca]
7. Product RoadMap and Plans [support@productplan.com];

## 0.7 Thank you for your attention!

We hope you find This introductory useful, and do take a look at our Preprint on the Universe as a Program for more tutorials and user guides! Please also let us know if you have any feedback using the Linkedin Link here.— more works is available here . Great Thanks! (We are also writing a book on Statistics: here or here, Another One of Geometry and Differential Equations, here, all are coming. Please Check other zenodo reports ). We will never forget Professor Gabriel Avossevou, Wilfrid Gangbo, Madame Toudonou, Professor of Geography and Land History – Ecole Normale Superieure of Porto-Novo, College Application, Professor Ahandagbe of Biology – Ecole Normale Superieure of Porto-Novo, College Application, Professor Atindogbe Cyriaque – IMSP, Professor Guy Degla, Professeur Jean Chabi Orou (Ecole Normale Superieure of Natitingou), Professeur Raphael Kelani (rkelani@gmail.com – Ecole Normale Superieure of Natitingou, read here), Recteur Akpona Simon of Parakou University , Professor Bouraima of Philosophy – from Ecole Normale Superieure of Porto-Novo, College Application, Professeur Chabi of Lycée Militaire des Jeunes filles de Natitingou, Rodolphe – kinesiologist (allied with our Parents Koovi & Patricia), etc. We keep some records of some classmates Facebook profiles on this link here (Jean-Marie Yalinkpon, Gaétan Kinifo, Kpéhoundé Igor, Olivier Tokpanou, Casimir Raymond Teffo, Ephraim Medegan Flaga, Casimir Takpiti, Bebada Rodrigue, Aurlus Sogbossi, Théophile Agbedjiko, Alain Togbenon, Thibault Houngue, Soliou Gbadamassi, Marius Midomide, Samuel Gbeya, William Ahossi, Akim Yorede, Firmin Zagbo, Henry Abadji, etc.). Boris Kougnimon – from Ecole Normale Superieure of Porto-Novo, College Application. The coming list are for some classmates from [ENSAE Dakar]: Souleymane Bognini, Celestin Semevo, Kayode Romaric, Zacharya Souli, Ulrich Faycal Sawadogo, Abdou Haki Maoude, Aliou Mballo Senzala, Jean-Claude Kabore, Joel Kazoule, Khadim Dia, Kokou Abah, Yaya Diallo, Ali Yedan, Hospice Dossou-Yovo, Nixon Koudakpo Kodjo, etc. We do remember some LDS Church relations as Well: Derlin Murray Pierre, Raymond Lallemant, etc. In Ecole Normale Superieure of Porto-Novo, College Application, we can remember Sinsin Corine Laurenda, here-15, here-16, Roseline Olory, Kiki-Sagbe Aina Mirange, Gbènahin Ninon Raïssa AMOUSSOU [read here], Rixte Lantonkpode, Iris NgonKen Caline, Christelle Amoussou [Her facebook Profile was Thaila Amoussou, here, or here], Akpata Abioro Dimitri (lorddisick63@gmail.com), Rhode Ahlonsou (rhode.ahlonsou@gmail.com),

Djoffon Morel (djoffonmorel@yahoo.com) [here-17-3], read here also, Khamil Osseni, Yessoufou Nourou Dine, Camille Abattan, Hildever Ahlonsou, etc.

Other General Quotes and Citations are here: Lucien Sagbo [ENSAE Dakar], Alex Spiridigliozzi [Hec Montreal], Carlos Akakpovi [ENSAE Dakar], Kayodé Romaric Agnomi [ENSAE Dakar], Alexandre Judicael [Ecole Normale Superieure de Natitingou], Alexandre Amoussou-folly [Ecole Normale Superieure de Natitingou], Zinsou Max Debaly [ENSAE Dakar].

More photos are available here, and here, for: Aurlus Sogbossi [Ecole Normale Superieure de Natitingou], Davo Appolinaire [Ecole Normale Superieure de Natitingou], Narcisse Houssa-Gansi [Ecole Normale Superieure de Natitingou], Djabarou Issotina [ENSAE Dakar], Zacharia Souli [ENSAE Dakar], Cheick Diouf [ENSAE Dakar], Armand Coulibaly [ENSAE Dakar], Emmanuel Tago [ENSAE Dakar], Arnaud Lion [Hec Montreal], Lawson–Joel [Colocataire dans la Ville de Porto-Novo], Yves-Codjo [Colocataire dans la Ville de Porto-Novo], Komlan Alain Zogbe [Ecole Normale Superieure de Natitingou], Moudachirou Oumarou (he is here in Canada)[ENSAE Dakar], Akim Korede Oyere[Ecole Normale Superieure de Natitingou], Nourou Deen Abdou[Ecole Normale Superieure de Natitingou], Yaya Diallo (he is here in Canada)[ENSAE Dakar], Fadel Boukari [Ecole Normale Superieure de Natitingou], Fadel Zime [Ecole Normale Superieure de Natitingou], Pomanlegni Fiacre, Ferdinand Fatchehoun [Ecole Normale Superieure de Natitingou, he went to Ecole Normale Superieure de Porto-Novo too], Romeo Dah Lokonon [Ecole Normale Superieure de Porto-Novo], Gerardo Maroya [Ecole Normale Superieure de Porto-Novo], Alexandre Patoum Counde[Ecole Normale Superieure de Natitingou], Jack Ligane Sène[ENSAE Dakar], Khadim Dia[ENSAE Dakar], Lizette Escobar [LDS Church], Patrick Agbo[Ecole Normale Superieure de Natitingou], Elder Patrick Lauder[LDS Church], Edrice Gresseau [Restauration Jamacaine - Canada], Christelle Hounkonnou, Stam Sossou Ahinon[Ecole Normale Superieure de Natitingou], Omer Michihoun[Ecole Normale Superieure de Natitingou], Beaudelaire Gnavo[Ecole Normale Superieure de Natitingou], Jhonel Louis Jean[LDS Church], Jonathan David[LDS Church], Ridouanala Massaoudou [Polytechnique Montreal], Samson Kagmatche[Doctor, Professor & Safety Agent of Zum Residences Montreal], Johnny Shakamay[LDS Church], Anders Eklund[LDS Church], Solenn Benini [Zum Residences, University of Montreal], Rodin Eboue, Mamady Doumbouya [University of Montreal], Mahamadou Tankari[ENSAE DAKAR IFPRI], Arsel Loris Gbossa[Ecole Normale Superieure de Natitingou], Enock Mehinto[Ecole Normale Superieure de Natitingou], Emmanuel Dabre[University of Montreal], Felix Houssounou[Ecole Normale Superieure de Natitingou], Sayido Medard[Ecole Normale Superieure de Natitingou], Modou Faye[ENSAE Dakar], Fregus Ledeji[Ecole Normale Superieure de Natitingou], Moussa Diallo[ENSAE Dakar], Jean-Jacques Birba[ENSAE Dakar], Soliou Gbadamassi[Ecole Normale Superieure de Natitingou], Diabel Diop[ENSAE Dakar], Ibrahima Gaye[ENSAE Dakar], Corinne Ehou[Lycee Militaire des Jeunes filles de Natitingou], Gaetan Bassinga[ENSAE Dakar], Mohamed Gueye[ENSAE Dakar], Dudu Cisse[ENSAE Dakar], Jean Noel Diouf[ENSAE Dakar], Professor Karim Cisse[ENSAE Dakar], etc.

Remembering our Primary (High) School, College Les JAMBETTES of Porto-Novo (in Benin, here-13-1, here-13-2, here-13-3), we can add more classmates names:

- Nazaire, Fadel, Michael Wadagni, Bonheur Sokenou, Esperant Abokou, Boko Ulrich, Mechak [we have met Only in Summer School], Chadrak [we have Only in Summer School], (Mechak & Chadrak are twins from the same mother), Iskine, Canine Olafa (a girl), Gbènahin Ninon Raïssa AMOUSSOU, Ludovik Afanou [a girl], (**Ludovik Afanou and Boko Ulrich came to Senegal, we have met and have visited each other**), Loick Tokpessi (he is currently in Canada, here), etc. Sometimes, {Ludovik Afanou} was also called kindly {Ludoruth Afanou}.
- The Mother of Boko Ulrich was once in the past the Director of College Les JAMBETTES of Porto-Novo. We will give more information about the different Directors we have met in those times by the past.
- Other Closed families can be quoted, here-17-1, or here-17-2: Koumagnon, Boko, Radji (we have met with Namaou Radji in Senegal, here), Corneille Onidogni, Hounto Ronel, Hounto Inès, Bamigboche, Monsieur Sourou Barthélémy DANSOU de la DESG[Director of Lycee Militaire des Jeunes filles de Natitingou][close to our family][here], Lawani family. We sent our Greetings Notes to Silifatou Bouari, here. Of course, we have memories of Agbomenou families, Romain Agbomenou, Francois Xavier Agbomenou, Judith Agbomenou, Firmine Agbomenou, etc.
- We truly regret the situation of many of our families uncles and grandfathers/grandmothers, have passed, we still do not beleive if this is true or not!, `https://fr.wikipedia.org/wiki/Damien_Zinsou_Alahassa` (for example). We need to get in touch with them, Yannick Alahassa, (`https://www.facebook.com/yannfaith`), Arielle Alahassa (`https://www.facebook.com/arielle.alahassa`), Fifame Alahassa (`https://www.facebook.com/bibiane.debamako.9`), Hillary Alahassa (`https://www.facebook.com/hillarydoheto/about`), Cedric Alahassa, etc.

- Two Important incidents happened when we were kids: Gwladys Enagnon Alahassa had an incident with someone on the road driving a bycicle [we were playing on a sable of construction, figure 5, we were present during the event], and they drive her in Hospital Louis Pasteur or [Hopital El Fateh] [We can verify later]. We were living near Les Jambettes College. Personnaly, I had a hard experience when we were kids when taking a bath, I broke my skull nuke, and father Hounto, our neighbor, drive me in my Mother Hospital. Ouando Clinic Hospital.

Figure 5: Construction Sable

## 0.8 Contributors & Authorship

We are inspired by the Washington Program of Art & Study, https://artsci.washington.edu/, we are currently applying, read here.

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